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APPLICATION NO.	F	FILING DATE,	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/884,998	09/884,998 06/21/2001		Takemori Takayama	980923A	5046		
23850	7590	03/26/2003					
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WASHINGTON, DC 20000		20000		ART UNIT	PAPER NUMBER		
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			·	DATE MAILED: 03/26/2003	Ø		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No. Applicant(s)								
Office Action Summary	Examiner		Group Art Unit						
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The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address									
Peri d for Reply	~								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIREMONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.									
 Extensions of time may be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply. If NO period for reply is specified above, such period shall, by default, expecified above. Failure to reply within the set or extended period for reply will, by statute. 	within the statutory minimitation (6) MONTHS from	um of thirty (30) on the mailing date	days will be consider	ed timely. on .					
Status									
\square Responsive to communication(s) filed on \square									
This action is FINAL.									
 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O.G. 213. 									
Disp sition of Claims									
\triangledown Claim(s) $25-33$	is/are p	is/are pending in the application.							
Of the above claim(s)	is/are v	is/are withdrawn from consideration.							
☐ Çlaim(s)		is/are a	is/are allowed.						
$\sqrt{\frac{2}{\text{Claim(s)}}} = \sqrt{\frac{2}{3}} = \sqrt{\frac{2}{3}}$	is/are r	ejected.							
☐ Claim(s)	is/are c	is/are objected to.							
☐ Claim(s)	are sub	are subject to restriction or election requirement.							
Application Papers		·							
☐ See the attached Notice of Draftsperson's Patent Drawing I	·								
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.									
☐ The drawing(s) filed on is/are objected	d to by the Examiner.								
 □ The specification is objected to by the Examiner. □ The oath or declaration is objected to by the Examiner. 									
·									
Priority under 35 U.S.C. § 119 (a)-(d)	or 25 11 5 C	(d)	•						
 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 11 9(a)-(d). □ All □ Some* □ None of the CERTIFIED copies of the priority documents have been □ received. 									
 received in Application No. (Series Code/Serial Number) received in this national stage application from the International Bureau (PCT Rule 1 7.2(a)). 									
*Certified copies not received:		<u> </u>	•						
Attachment(s)									
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s) 🗆 Ir	☐ Interview Summary, PTO-413							
☐ Notice of Reference(s) Cited, PTO-892		☐ Notice of Informal Patent Application, PTO-152							
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	Other								
Office Action Summary									

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No. 6

Serial No: 09/884,998

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 25-26 and 28-29 are rejected under 35 U.S.C. § 103 as being unpatentable over USP 6193820 to Girardello et al.
- 4. Girardello discloses the features including the claimed crawler belt bushing, three different hardened layers, hardness, microstructures, and its hardened outside layer to inner layer thickness ratio (Figures 7-8 and col. 5, lines 55-63). The difference between the reference(s) and the claims are as follows: Girardello does not explicitly disclose the inner layer is harder than the outer layer. But, the hardness according to Figures 1 and 7 are very close that either one could be higher or lower than the other. Furthermore, hardness on either layer exists in range and the range of

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the outer layer overlaps the inner layer. Therefore, optimization of a variable recognized in the art as a result-effective variable normally is considered to be within the ordinary skill of the art. See In re Antonie, 559 F.2d 618, 195 USPQ 6 (CCPA 1977).

5. With respect to the process limitations in the claims that the invention defined in a product-by-process claim is a product, not a process. In re Bridgeford, 357 F. 2d 679, 149 USPQ 55 (CCPA 1966). It is the patentability of the product claimed and not of the recited process steps which must be established. See In re Brown, 459 F. 2d 531, 173 USPQ 685 (CCPA 1972) and In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976). The guidance that has been provided by court on this matter is

[i]f the product in a product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process.

In re Thorpe, 777 F.2d 695, 227 USPQ 964, 966 (Fed. Cir. 1985).

- 6. Claims 27 and 30-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over reference as applied to claims above, and further in view of JP 401272719.
- 7. The claimed subject matter as is disclosed and rejected above by the cited reference(s) except for the bushing steel composition. However, JP 401272719 in

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page 3, Table 1 discloses the claimed bushing steel is merely a conventional steel for bushing in the same field of endeavor or the analogous metallurgical art. Accordingly, it would have been prima facie obvious for an ordinary skill artisan motivated by a reasonable expectation of success to heat treat bushing as taught by Girardello with conventional bushing steel in order to obtain all of the known benefits. In re LaVerne, et al., 108 USPQ 335.

Response to Arguments

- 8. Applicant's arguments filed January 8, 2003 have been fully considered but they are not persuasive.
- 9. Applicants argue that product of Girardello contains sorbite. But the instant claims do not exclude additional microstructures. Moreover, sorbite in cited reference product is a tempered martensite which would be formed after instant claimed tempering step after the quenching step (See instant claim 25, last step). Moreover, Figure 8 of Girardello shows also martensite, ferrite, bainite and their combinations.

Conclusion

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory

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period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See MPEP § 2163.06 (a) and 37 C.F.R. § 1.119.

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (703) 308-2542. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (703)-308-1146.

The facsimile phone number for this Art Unit 1742 are (703) 305-3601 (Official Paper only) and (703) 305-7719 (Unofficial Paper only). When filing a FAX in Technology Center 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

SIKYIN IP PRIMARY EXAMINER

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S. Ip March 21, 2003